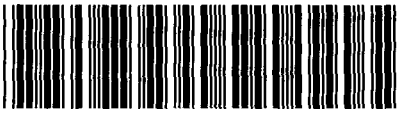

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Public Utility Commission of Texas

Employee Training Report
Required by 16 Texas Admin. Code § 25.97(d)

PROJECT NO. 50595

AFFECTED ENTITY: Denton County Electric Cooperative

General Information

Pursuant to 16 Texas Admin. Code § 25.97(d)(2), not later than the 30th day after the date an affected entity finalizes a material change to a document or training program, the affected entity must submit an updated report. The first report must be submitted not later than May 1, 2020.

Instructions

Answer all questions, fill-in all blanks, and have the report notarized in the Affidavit.

Affidavit

A representative of the affected entity must swear to and affirm the truthfulness, correctness, and completeness of the information provided by attaching a signed and notarized copy of the Affidavit provided with this form.

Filing Instructions

Submit four copies (an original and three copies) of the completed form and signed and notarized Affidavit to:

Central Records Filing Clerk
Public Utility Commission of Texas
1701 N. Congress Avenue
P.O. Box 13326
Austin, Texas 78711-3326
Telephone: (512) 936-7180

1. Provide a summary description of hazard recognition training documents you provide your employees related to overhead transmission and distribution facilities.

Employees attended training through the Texas Electric Cooperatives " Loss Control" program. In April of 2020, employees participated in the HB 4150 training presentation presented by Phillip Henricks, CLCP . This training covers Hazard Recognition.

This four-hour course also focuses on equipping electric utility employees with the knowledge to recognize clearance hazards of overhead power lines.

Course outline:
- Importance of hazard recognition for overhead power lines
- Vertical and horizontal clearance requirements
- Importance of an intact system grounding system
- Isolation or/and grounding of anchor guys
- Hazard assessment management
  - Defining criteria for hazard assessment and data collection
  - Analyzing data and determining appropriate actions
  - Preparing and executing an Action plan
- Report documentation and record maintenance

Line workers receive additional training through the Company "EDP" (Employee Development Program). These training classes cover areas such as Hazard Recognition and public safety around power lines.

2. Provide a summary description of training programs you provide your employees related to the National Electrical Safety Code for construction of electric transmission and distribution lines.

Employees attended training through the Texas Electric Cooperatives " Loss Control" program. In April of 2020, employees participated in the HB 4150 training presentation presented by Phillip Henricks, CLCP . This training covers NESC Clearance Requirements. This four-hour course was created to educate all utility personnel whose positions require a working knowledge of the NESC rules, which can include engineers, line workers and staking technicians.

Course outline:

- Defining sag requirements—Rule 230 2
- Ground clearances—Table 232-1 and 232-2
- Clearances to building and signs—Table 234-1
- Clearances to pools and grain bins—Rule 234E and 234F
- Joint use clearances—Rule 235, 238, and 239

Designing Transmission and Distribution Lines Crossing Lakes:

This one-day program was created based on the mandates in HB 4150 outlining that utilities may wish to review all lake crossings for adequate clearances as defined by Rule 232 of the NESC and for compliance with the U.S. Army Corps of Engineers easement requirements. The class will review the applicable sections of the NESC as it relates to designing long spans over lakes and the easement terms and specifications commonly found in easements with the Corps of Engineers. The class provides a demonstration of designing a lake crossing using software such as Pole Foreman and Sag 10.

Course outline:
- Requirements of the HB 4150
- Lake crossing issues
- NESC requirements for lake crossings
  - Rule 232 clearances
  - Rule 241 required grade of construction of crossing lakes
  - Rule 250D application of extreme ice
  - Rule 250C extreme wind
  - Rule 235Cb design considerations for wire slap and sag to lower conductors
- Corps of Engineers easement requirements
  - Vertical clearance requirements
  - Additional clearance requirements for areas designated for rigging or launching sailboats
- Determining lake crossing clearances
  - High water
  - Sag and tension for long crossings
  - Worst case sag
- Additional considerations
  - Transmission adders
  - Marker balls
- Example problems

Engineers and Staking Technician employees design overhead distribution lines to meet NESC standards and follow the Company spec book, which complies with and meets NESC standards.

Affected Entity: Denton County Electric Cooperative **PROJECT NO.** 50595

AFFIDAVIT

I swear or affirm that I have personal knowledge of the facts stated in this report or am relying on people with personal knowledge, that I am competent to testify to them, and that I have the authority to submit this report on behalf of the affected entity. I further swear or affirm that all statements made in this report are true, correct, and complete.

Signature

Benjamin Deremer
Printed Name

Director of Safety
Job Title

Denton County Electric Cooperative
Name of Affected Entity

Sworn and subscribed before me this 23rd **day of** April, 2020.
Month Year

COLLEEN AMENT
Notary Public, State of Texas
Comm. Expires 10-18-2022
Notary ID 635969-2

Colleen Ament

Notary Public in and For the State of Texas.

My commission expires on 10-18-2022.